

Marco Guerrini

List of Publications by Year in descending order

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107
papers

4,385
citations

101496

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116
all docs

116
docs citations

116
times ranked

3750
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural variation in the linkage region of pharmaceutical heparin arising from oxidative treatments during manufacture. <i>Carbohydrate Research</i> , 2022, 514, 108540.	1.1	0
2	NMR spectroscopy and chemometric models to detect a specific non-porcine ruminant contaminant in pharmaceutical heparin. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 214, 114724.	1.4	9
3	Pentosan Polysulfate Inhibits Attachment and Infection by SARS-CoV-2 In Vitro: Insights into Structural Requirements for Binding. <i>Thrombosis and Haemostasis</i> , 2022, 122, 984-997.	1.8	12
4	Glycosaminoglycans from <i>Litopenaeus vannamei</i> Inhibit the Alzheimer's Disease β Secretase, BACE1. <i>Marine Drugs</i> , 2021, 19, 203.	2.2	8
5	Saturated tetrasaccharide profile of enoxaparin. An additional piece to the heparin biosynthesis puzzle. <i>Carbohydrate Polymers</i> , 2021, 273, 118554.	5.1	1
6	MD simulation of the interaction between sialoglycans and the second sialic acid binding site of influenza A virus N1 neuraminidase. <i>Biochemical Journal</i> , 2021, 478, 423-441.	1.7	2
7	Efficient selective deacetylation of complex oligosaccharides using the neutral organotin catalyst [tBu ₂ SnOH(Cl)] ₂ . <i>Carbohydrate Research</i> , 2020, 498, 108172.	1.1	4
8	Characterization of an Antibody Recognizing the Conserved Inner Core of <i>Pseudomonas aeruginosa</i> Lipopolysaccharides. <i>Biochemistry</i> , 2020, 59, 4202-4211.	1.2	4
9	Degeneracy of the Antithrombin Binding Sequence in Heparin: 2-O-Sulfated Iduronic Acid Can Replace the Critical Glucuronic Acid. <i>Chemistry - A European Journal</i> , 2020, 26, 11814-11818.	1.7	9
10	Heparin Inhibits Cellular Invasion by SARS-CoV-2: Structural Dependence of the Interaction of the Spike S1 Receptor-Binding Domain with Heparin. <i>Thrombosis and Haemostasis</i> , 2020, 120, 1700-1715.	1.8	228
11	Inhibition of BACE1, the β -secretase implicated in Alzheimer's disease, by a chondroitin sulfate extract from <i>Sardina pilchardus</i> . <i>Neural Regeneration Research</i> , 2020, 15, 1546.	1.6	16
12	Molecular Aspects of Heparanase Interaction with Heparan Sulfate, Heparin and Glycol Split Heparin. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1221, 169-188.	0.8	2
13	1D and 2D-HSQC NMR: Two Methods to Distinguish and Characterize Heparin From Different Animal and Tissue Sources. <i>Frontiers in Medicine</i> , 2019, 6, 142.	1.2	14
14	A Glycosaminoglycan Extract from <i>Portunus pelagicus</i> Inhibits BACE1, the β Secretase Implicated in Alzheimer's Disease. <i>Marine Drugs</i> , 2019, 17, 293.	2.2	6
15	SAX-HPLC and HSQC NMR Spectroscopy: Orthogonal Methods for Characterizing Heparin Batches Composition. <i>Frontiers in Medicine</i> , 2019, 6, 78.	1.2	13
16	NMR in the Characterization of Complex Mixture Drugs. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2019, , 115-137.	0.2	0
17	Multivariate analysis applied to complex biological medicines. <i>Faraday Discussions</i> , 2019, 218, 303-316.	1.6	9
18	Introduction to the Molecules Special Edition Entitled "Heparan Sulfate and Heparin: Challenges and Controversies": Some Outstanding Questions in Heparan Sulfate and Heparin Research. <i>Molecules</i> , 2019, 24, 1399.	1.7	10

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19	Recognition and Conformational Properties of an Alternative Antithrombin Binding Sequence Obtained by Chemoenzymatic Synthesis. <i>ChemBioChem</i> , 2018, 19, 1178-1188.	1.3	11
20	Fine structural characterization of sulodexide. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 156, 67-79.	1.4	21
21	Qualification of HSQC methods for quantitative composition of heparin and low molecular weight heparins. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 136, 92-105.	1.4	48
22	Investigating the relationship between temperature, conformation and calcium binding in heparin model oligosaccharides. <i>Carbohydrate Research</i> , 2017, 438, 58-64.	1.1	7
23	Combining NMR Spectroscopy and Chemometrics to Monitor Structural Features of Crude Heparin. <i>Molecules</i> , 2017, 22, 1146.	1.7	26
24	Structural Characterization of the Low-Molecular-Weight Heparin Dalteparin by Combining Different Analytical Strategies. <i>Molecules</i> , 2017, 22, 1051.	1.7	12
25	Characterization of Danaparoid Complex Extractive Drug by an Orthogonal Analytical Approach. <i>Molecules</i> , 2017, 22, 1116.	1.7	13
26	Molecular Weights of Bovine and Porcine Heparin Samples: Comparison of Chromatographic Methods and Results of a Collaborative Survey. <i>Molecules</i> , 2017, 22, 1214.	1.7	14
27	Investigating Glycol-Split-Heparin-Derived Inhibitors of Heparanase: A Study of Synthetic Trisaccharides. <i>Molecules</i> , 2016, 21, 1602.	1.7	15
28	Uncovering the Relationship between Sulphation Patterns and Conformation of Iduronic Acid in Heparan Sulphate. <i>Scientific Reports</i> , 2016, 6, 29602.	1.6	53
29	Nuclear Magnetic Resonance and Molecular Dynamics Simulation of the Interaction between Recognition Protein H7 of the Novel Influenza Virus H7N9 and Glycan Cell Surface Receptors. <i>Biochemistry</i> , 2016, 55, 6605-6616.	1.2	12
30	Atomic Details of the Interactions of Glycosaminoglycans with Amyloid- β Fibrils. <i>Journal of the American Chemical Society</i> , 2016, 138, 8328-8331.	6.6	48
31	Structural peculiarity and antithrombin binding region profile of mucosal bovine and porcine heparins. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 118, 52-63.	1.4	36
32	Differentiation of Generic Enoxaparins Marketed in the United States by Employing NMR and Multivariate Analysis. <i>Analytical Chemistry</i> , 2015, 87, 8275-8283.	3.2	42
33	Antithrombin-binding oligosaccharides: structural diversities in a unique function?. <i>Glycoconjugate Journal</i> , 2014, 31, 409-416.	1.4	29
34	A heparin-like glycosaminoglycan from shrimp containing high levels of 3-O-sulfated d-glucosamine groups in an unusual trisaccharide sequence. <i>Carbohydrate Research</i> , 2014, 390, 59-66.	1.1	30
35	Structural features of glycol-split low-molecular-weight heparins and their heparin lyase generated fragments. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 249-265.	1.9	27
36	Monosaccharide composition of glycans based on Q-HSQC NMR. <i>Carbohydrate Polymers</i> , 2014, 104, 34-41.	5.1	33

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37	Insights into the Human Glycan Receptor Conformation of 1918 Pandemic Hemagglutininâ€™ Glycan Complexes Derived from Nuclear Magnetic Resonance and Molecular Dynamics Studies. <i>Biochemistry</i> , 2014, 53, 4122-4135.	1.2	14
38	Conformational changes of 1-4-glucopyranosyl residues of a sulfated CC linked hexasaccharide. <i>Carbohydrate Research</i> , 2014, 389, 134-140.	1.1	2
39	Human (Î±2â€™6) and Avian (Î±2â€™3) Sialylated Receptors of Influenza A Virus Show Distinct Conformations and Dynamics in Solution. <i>Biochemistry</i> , 2013, 52, 7217-7230.	1.2	45
40	Characterizing the Microstructure of Heparin and Heparan Sulfate Using ¹ H and ¹⁵ N NMR Chemical Shift Analysis. <i>Analytical Chemistry</i> , 2013, 85, 1247-1255.	3.2	30
41	Unravelling Structural Information from Complex Mixtures Utilizing Correlation Spectroscopy Applied to HSQC Spectra. <i>Analytical Chemistry</i> , 2013, 85, 7487-7493.	3.2	24
42	An unusual antithrombin-binding heparin octasaccharide with an additional 3-O-sulfated glucosamine in the active pentasaccharide sequence. <i>Biochemical Journal</i> , 2013, 449, 343-351.	1.7	49
43	Heparin Dodecasaccharide Containing Two Antithrombin-binding Pentasaccharides. <i>Journal of Biological Chemistry</i> , 2013, 288, 25895-25907.	1.6	40
44	A zinc complex of heparan sulfate destabilises lysozyme and alters its conformation. <i>Biochemical and Biophysical Research Communications</i> , 2012, 425, 794-799.	1.0	7
45	How To Find a Needle (or Anything Else) in a Haystack: Two-Dimensional Correlation Spectroscopy-Filtering with Iterative Random Sampling Applied to Pharmaceutical Heparin. <i>Analytical Chemistry</i> , 2012, 84, 6841-6847.	3.2	22
46	Following Proteinâ€™ Glycosaminoglycan Polysaccharide Interactions with Differential Scanning Fluorimetry. <i>Methods in Molecular Biology</i> , 2012, 836, 171-182.	0.4	4
47	Low-Molecular-Weight Heparins: Differential Characterization/Physical Characterization. <i>Handbook of Experimental Pharmacology</i> , 2012, , 127-157.	0.9	19
48	High-sensitivity visualisation of contaminants in heparin samples by spectral filtering of ¹ H NMR spectra. <i>Analyst, The</i> , 2011, 136, 1390.	1.7	23
49	Construction and use of a library of bona fide heparins employing ¹ H NMR and multivariate analysis. <i>Analyst, The</i> , 2011, 136, 1380.	1.7	26
50	A robust method to quantify low molecular weight contaminants in heparin: detection of tris(2-n-butoxyethyl) phosphate. <i>Analyst, The</i> , 2011, 136, 2330.	1.7	16
51	Low-molecular-weight heparin from Cu ²⁺ and Fe ²⁺ Fenton type depolymerisation processes. <i>Thrombosis and Haemostasis</i> , 2010, 103, 613-622.	1.8	20
52	Characterization and binding activity of the chondroitin/dermatan sulfate chain from Endocan, a soluble endothelial proteoglycan. <i>Glycobiology</i> , 2010, 20, 1380-1388.	1.3	57
53	Comparable stabilisation, structural changes and activities can be induced in FGF by a variety of HS and non-CAG analogues: implications for sequence-activity relationships. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 5390.	1.5	29
54	Effects on Molecular Conformation and Anticoagulant Activities of 1,6-Anhydrosugars at the Reducing Terminal of Antithrombin-Binding Octasaccharides Isolated from Low-Molecular-Weight Heparin Enoxaparin. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 8030-8040.	2.9	44

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55	Glycosaminoglycan origin and structure revealed by multivariate analysis of NMR and CD spectra. <i>Glycobiology</i> , 2009, 19, 52-67.	1.3	50
56	Orthogonal analytical approaches to detect potential contaminants in heparin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16956-16961.	3.3	90
57	Cations Modulate Polysaccharide Structure To Determine FGF ² /FGFR Signaling: A Comparison of Signaling and Inhibitory Polysaccharide Interactions with FGF-1 in Solution. <i>Biochemistry</i> , 2009, 48, 4772-4779.	1.2	16
58	The Tainted Heparin Story: An Update. <i>Thrombosis and Haemostasis</i> , 2009, 102, 907-911.	1.8	29
59	Structural features of low-molecular-weight heparins affecting their affinity to antithrombin. <i>Thrombosis and Haemostasis</i> , 2009, 102, 865-873.	1.8	76
60	Oversulfated chondroitin sulfate is a contaminant in heparin associated with adverse clinical events. <i>Nature Biotechnology</i> , 2008, 26, 669-675.	9.4	559
61	Minimum FGF2 Binding Structural Requirements of Heparin and Heparan Sulfate Oligosaccharides As Determined by NMR Spectroscopy. <i>Biochemistry</i> , 2008, 47, 13862-13869.	1.2	57
62	Antithrombin-binding Octasaccharides and Role of Extensions of the Active Pentasaccharide Sequence in the Specificity and Strength of Interaction. <i>Journal of Biological Chemistry</i> , 2008, 283, 26662-26675.	1.6	72
63	Interaction of Heparins with Fibroblast Growth Factors: Conformational Aspects. <i>Current Pharmaceutical Design</i> , 2007, 13, 2045-2056.	0.9	29
64	Influence of substitution pattern and cation binding on conformation and activity in heparin derivatives. <i>Glycobiology</i> , 2007, 17, 983-993.	1.3	66
65	Low Molecular Weight Heparins: Structural Differentiation by Bidimensional Nuclear Magnetic Resonance Spectroscopy. <i>Seminars in Thrombosis and Hemostasis</i> , 2007, 33, 478-487.	1.5	96
66	Characterization of di- and monosulfated, unsaturated heparin disaccharides with terminal N-sulfated 1,6-anhydro- β -D-glucosamine or N-sulfated 1,6-anhydro- β -D-mannosamine residues. <i>Carbohydrate Research</i> , 2007, 342, 835-842.	1.1	26
67	Inclusion complex characterization between progesterone and hydroxypropyl- β -cyclodextrin in aqueous solution by NMR study. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2007, 57, 317-321.	1.6	13
68	Conformational transitions induced in heparin octasaccharides by binding with antithrombin III. <i>Biochemical Journal</i> , 2006, 399, 191-198.	1.7	48
69	Synthesis and characterisation of hexa- and tetrasaccharide mimics from acetobromomaltotriose and acetobromomaltose, and of C-disaccharide mimics from acetobromoglucose, obtained by electrochemical reduction on silver. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 243-253.	1.8	17
70	Complex glycosaminoglycans: profiling substitution patterns by two-dimensional nuclear magnetic resonance spectroscopy. <i>Analytical Biochemistry</i> , 2005, 337, 35-47.	1.1	118
71	Dynamic properties of biologically active synthetic heparin-like hexasaccharides. <i>Glycobiology</i> , 2005, 15, 1008-1015.	1.3	33
72	Identification and Characterization of Heparin/Heparan Sulfate Binding Domains of the Endoglycosidase Heparanase. <i>Journal of Biological Chemistry</i> , 2005, 280, 20457-20466.	1.6	118

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73	Structural and Conformational Aspects of the Anticoagulant and Antithrombotic Activity of Heparin and Dermatan Sulfate. <i>Current Pharmaceutical Design</i> , 2004, 10, 939-949.	0.9	73
74	Structure of a heteroxylan of gum exudate of the palm <i>Scheelea phalerata</i> (uricuri). <i>Phytochemistry</i> , 2004, 65, 2347-2355.	1.4	28
75	Undersulfated and Glycol-Split Heparins Endowed with Antiangiogenic Activity. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 838-848.	2.9	80
76	Low-Molecular-Weight Heparin and Dermatan Sulfate End Group-Labeled with Tyramine and Fluorescein. Biochemical and Biological Characterization of the Fluorescent-Labeled Heparin Derivative. <i>Seminars in Thrombosis and Hemostasis</i> , 2002, 28, 343-354.	1.5	6
77	Active Conformations of Glycosaminoglycans. NMR Determination of the Conformation of Heparin Sequences Complexed with Antithrombin and Fibroblast Growth Factors in Solution. <i>Seminars in Thrombosis and Hemostasis</i> , 2002, 28, 325-334.	1.5	33
78	Cycloartane and Oleanane Saponins from Egyptian <i>Astragalus</i> spp. as Modulators of Lymphocyte Proliferation. <i>Planta Medica</i> , 2002, 68, 986-994.	0.7	37
79	A novel computational approach to integrate NMR spectroscopy and capillary electrophoresis for structure assignment of heparin and heparan sulfate oligosaccharides. <i>Glycobiology</i> , 2002, 12, 713-719.	1.3	46
80	Short Heparin Sequences Spaced by Glycol-Split Uronate Residues Are Antagonists of Fibroblast Growth Factor 2 and Angiogenesis Inhibitors. <i>Biochemistry</i> , 2002, 41, 10519-10528.	1.2	76
81	Minimal Heparin/Heparan Sulfate Sequences for Binding to Fibroblast Growth Factor-1. <i>Biochemical and Biophysical Research Communications</i> , 2002, 292, 222-230.	1.0	52
82	Human milk oligosaccharides: an enzymatic protection step simplifies the synthesis of 3- and 6-O-sialyllactose and their analogues. <i>Carbohydrate Research</i> , 2002, 337, 473-483.	1.1	15
83	Conformation of heparin pentasaccharide bound to antithrombin III. <i>Biochemical Journal</i> , 2001, 359, 265-272.	1.7	101
84	Conformation of heparin pentasaccharide bound to antithrombin III. <i>Biochemical Journal</i> , 2001, 359, 265.	1.7	57
85	A Rational Approach to Heparin-Related Fragments: Synthesis of Differently Sulfated Tetrasaccharides as Potential Ligands for Fibroblast Growth Factors. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 2727-2734.	1.2	37
86	In Vitro Antiplasmodial Activity of Extracts of <i>Tristania</i> Species and Identification of the Active Constituents: Ellagic Acid and 3,4,5-Trimethoxyphenyl-(6-O-galloyl)-O- β -D-glucopyranoside. <i>Journal of Natural Products</i> , 2001, 64, 603-607.	1.5	69
87	Cycloartane saponins from <i>Astragalus peregrinus</i> as modulators of lymphocyte proliferation. <i>FASEB J</i> , 2001, 15, 894-905.	1.1	37
88	Preserving the Original Heparin Structure of a Novel Low Molecular Weight Heparin by γ -Irradiation. <i>Arzneimittelforschung</i> , 2001, 51, 806-813.	0.5	7
89	Combined Quantitative ^1H and ^{13}C Nuclear Magnetic Resonance Spectroscopy for Characterization of Heparin Preparations. <i>Seminars in Thrombosis and Hemostasis</i> , 2001, 27, 473-482.	1.5	78
90	Effect of substitution pattern on ^1H , ^{13}C NMR chemical shifts and ^1JCH coupling constants in heparin derivatives. <i>Carbohydrate Research</i> , 2000, 329, 239-247.	1.1	54

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91	Acetobromomaltose, a New Source of Carbohydrate Radicals. EPR Characterisation of Maltosyl and 2-Deoxymaltos-2-yl Radicals and Syntheses of Tetrasaccharide-like Mimics, Maltal, 3-Î±-Maltosyl Propiononitrile, 1,5-Anhydromaltitol and 2-Deoxymaltopyranoside. Tetrahedron, 2000, 56, 6291-6297.	1.0	6
92	A novel heparan sulphate with high degree of N-sulphation and high heparin cofactor-II activity from the brine shrimp <i>Artemia franciscana</i> . International Journal of Biological Macromolecules, 2000, 27, 49-57.	3.6	30
93	Synthesis of disaccharidic sub-units of a new series of heparin related oligosaccharides. Tetrahedron, 1999, 55, 9867-9880.	1.0	33
94	Structure of heparin-derived tetrasaccharide complexed to the plasma protein antithrombin derived from NOEs,J-couplings and chemical shifts. FEBS Journal, 1999, 261, 789-801.	0.2	32
95	Electrochemical reduction of halogenosugars on silver: a new approach to C-disaccharide-like mimics. Chemical Communications, 1998, , 1575-1576.	2.2	28
96	Synthesis and Biological Effects of N-Alkylamine-Labeled Low-Molecular-Mass Dermatan Sulfate. Seminars in Thrombosis and Hemostasis, 1997, 23, 99-107.	1.5	1
97	C-Glucosyl quinones and related spacer-connected C-disaccharide. Chemical Communications, 1997, , 1617-1618.	2.2	6
98	Synthesis of Stable Analogues of Glyceroglycolipids. Tetrahedron, 1997, 53, 6163-6170.	1.0	18
99	A galactosphingolipid from the lichen, <i>Ramalina celastri</i> . Phytochemistry, 1997, 45, 651-653.	1.4	10
100	Motional properties of E. Coli polysaccharide K5 in aqueous solution analyzed by NMR relaxation measurements. Carbohydrate Research, 1997, 300, 69-76.	1.1	26
101	Modifications under basic conditions of the minor sequences of heparin containing 2,3 or 2,3,6 sulfatedd-glucosamine residues. Carbohydrate Research, 1997, 302, 103-108.	1.1	19
102	¹ H and ¹³ C NMR spectral assignments of the major sequences of twelve systematically modified heparin derivatives. Carbohydrate Research, 1996, 294, 15-27.	1.1	141
103	Differentiation of Beef and Pig Mucosal Heparins by NMR Spectroscopy. Thrombosis and Haemostasis, 1995, 74, 1205-1205.	1.8	18
104	Semisynthesis and Analysis of Lipophilically Modified Unfractionated and Low Molecular Mass Heparins. Seminars in Thrombosis and Hemostasis, 1994, 20, 182-192.	1.5	3
105	Nuclear Magnetic Resonance Analysis of Human Urine: Influence of Intravenous and Oral Administration of Glycosaminoglycans. Seminars in Thrombosis and Hemostasis, 1994, 20, 144-151.	1.5	2
106	Heparin-like compounds prepared by chemical modification of capsular polysaccharide from E. coli K5. Carbohydrate Research, 1994, 263, 271-284.	1.1	105
107	CHAPTER 14. New Methods for the Analysis of Heterogeneous Polysaccharides “ Lessons Learned from the Heparin Crisis. New Developments in NMR, 0, , 305-334.	0.1	1